packdof

Packing all the free coil parameters into a one rank vector.

0.1 Overview

- The case_coils determines the packing and unpacking patern.
- case_coils = 1: Coils are represented with Fourier series.
- For each coil, the number of DOF is $6N_F + 4$ (sin 0 terms are omitted.)

$$\mathbf{X_i} = \left[\underbrace{I, \underbrace{X_{c,0}, \cdots, X_{c,N}, \underbrace{X_{s,1}, \cdots, X_{s,N}, Y_{c,0}, \cdots, Z_{s,N}}_{N}}_{(1)} \right]$$

- Coil currents/geometry can also be fixed, and they are determined by coil%Ic and coil%Lc.
- $\bullet\,$ The total number of DOF Ndof should be

$$Ndof = Ncoils * (6 * NFcoil + 4) - Nfixcur - Nfixgeo * (6 * NFcoil + 3)$$
 (2)

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Focus subroutines;